

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P780995

Luminaire Tested: LER4D35BD010-EC4DR3020359027-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D35BD010-EC4DR3020359027-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3030.9 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 30.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

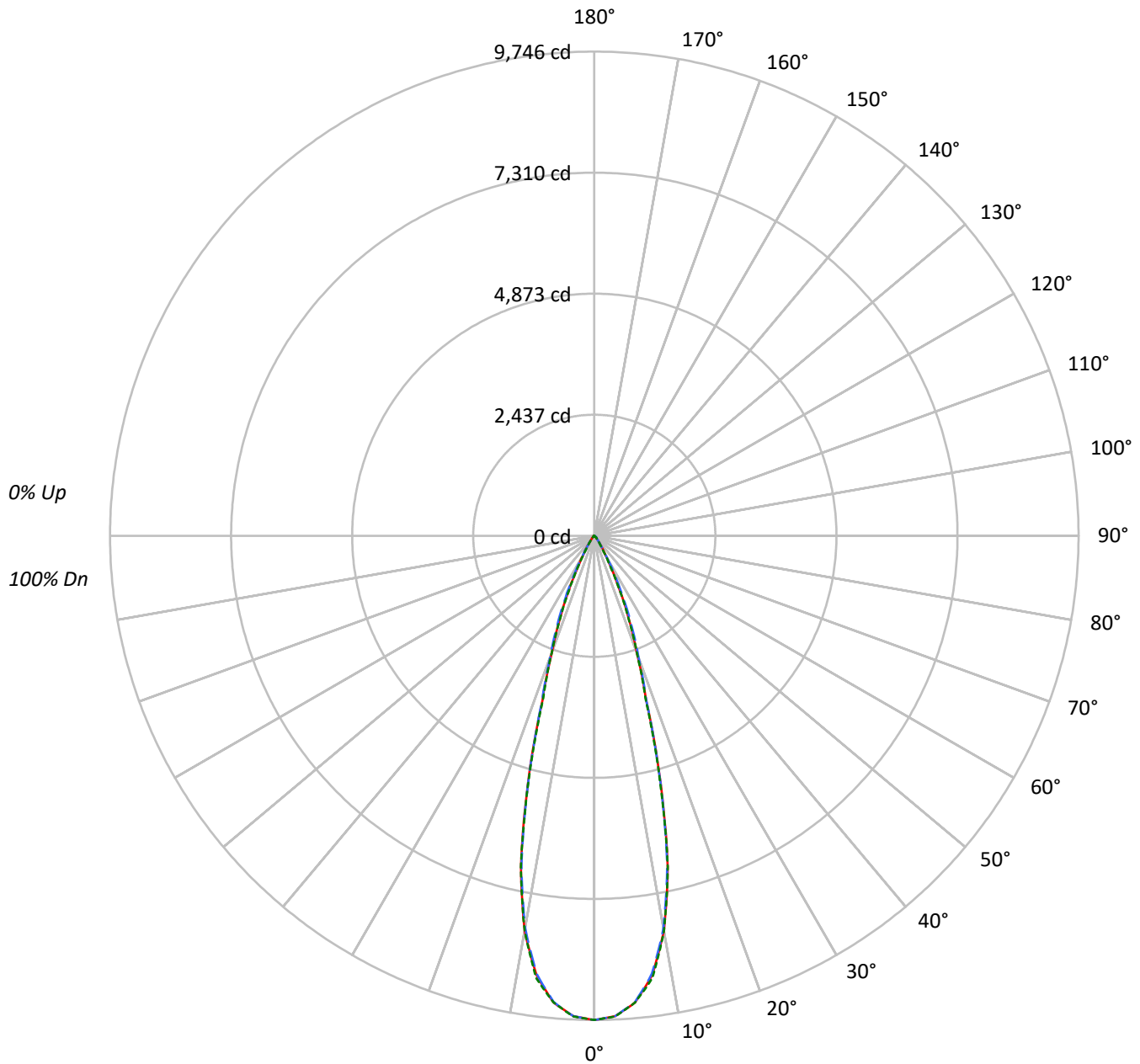


Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96		
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92		
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89		
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85		
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82		
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79		
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77		
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74		
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72		
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	745969	745969	745969
5°	724554	723709	724592
10°	627576	623146	627429
15°	409459	407264	405212
20°	203607	211247	203330
25°	102564	115654	100461
30°	41064	44740	35778
35°	19044	18240	15287
40°	8223	9133	7744
45°	5802	7199	5856
50°	1989	5240	2108
55°	1148	2175	1214
60°	811	949	811
65°	525	525	525
70°	313	224	313
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 7199 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	857.0	28.3
10°-20°	1380.2	45.5
20°-30°	596.4	19.7
30°-40°	135.9	4.5
40°-50°	46.7	1.5
50°-60°	11.4	0.4
60°-70°	3.0	0.1
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2833.6	93.5
0°-40°	2969.5	98.0
0°-60°	3027.6	99.9
0°-90°	3030.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3030.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9746	9746	9746	9746	9746	
5°	9430	9421	9419	9438	9430	858
15°	5167	5105	5139	5123	5114	1384
25°	1214	1260	1369	1228	1190	581
35°	204	208	195	194	164	138
45°	54	66	66	66	54	38
55°	9	9	16	10	9	8
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9745.7	9745.7	9745.7	9745.7	9745.7
2.5°	9681.1	9674.4	9678.2	9683.0	9684.9
5°	9429.9	9420.8	9418.9	9438.5	9430.4
7.5°	8923.2	8910.3	8890.7	8935.2	8976.8
10°	8074.4	8060.0	8017.4	8038.5	8072.5
12.5°	6821.2	6774.8	6773.9	6840.8	6831.8
15°	5167.1	5104.9	5139.4	5122.6	5113.5
17.5°	3474.7	3450.8	3496.7	3482.9	3423.1
20°	2499.6	2505.8	2593.4	2549.3	2496.2
22.5°	1824.0	1846.5	1950.3	1836.9	1795.3
25°	1214.4	1260.3	1369.4	1228.3	1189.5
27.5°	746.9	768.0	878.5	737.3	716.3
30°	464.6	454.1	506.2	434.5	404.8
32.5°	304.8	291.4	308.1	276.6	252.6
35°	203.8	208.1	195.2	193.8	163.6
37.5°	127.3	146.4	129.2	137.8	105.3
40°	82.3	106.2	91.4	101.0	77.5
42.5°	67.5	81.8	75.1	79.9	68.9
45°	53.6	66.5	66.5	66.5	54.1
47.5°	29.7	44.5	56.9	45.5	31.6
50°	16.7	22.5	44.0	23.4	17.7
52.5°	11.5	12.9	30.1	13.4	12.0
55°	8.6	9.1	16.3	9.6	9.1
57.5°	6.7	7.2	8.6	7.2	6.7
60°	5.3	5.3	6.2	5.7	5.3
62.5°	3.8	3.8	4.3	3.8	3.8
65°	2.9	2.9	2.9	2.9	2.9
67.5°	1.4	1.9	1.9	1.9	1.9
70°	1.4	1.0	1.0	1.0	1.4
72.5°	1.0	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)